

# Emergency stop switch

84-5241.2B20

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## 84-5241.2B20 Emergency stop switch

### FRONT

**Front dimension:** Ø 32 mm

**Front form:** Round

### MOUNTING

**Mounting cut-out:** Ø 22.3 mm

**Mounting type:** Panel mounting

### OPERATING-/INDICATION PART

**Lens colour:** Red

**Lens material:** Plastic, according to UL 94 V0

**Lens illumination:** Illuminated

**Lens shape:** Mushroom-head

**Lens optics:** opaque

**Lens:** round

**Switching position ring:** Black

**Illumination colour:** Red

### ELECTRICAL CHARACTERISTICS

**Switching voltage and switching current:**

|  |               |                |
|--|---------------|----------------|
| Switch rating AC with silver contact (gold plated) |               |                |
| Service category AC-15 as per EN IEC 60947-5-1     |               |                |
| Voltage  | 120 VAC       | 240 VAC        |
| Current  | 3 A           | 1,5 A          |
| Switch rating AC with silver contact (gold plated) |               |                |
| Service category DC-13 as per EN IEC 60947-5-1     |               |                |
| NO contacts  | NC contacts   | NO/NC contacts |
| (48 VA)  | (60 VA)       |                |
| 12 VDC/2.0 A                                       | 12 VDC/2.5 A  | 125 VDC/0.22 A |
| 24 VDC/2.0 A                                       | 24 VDC/2.5 A  | 250 VDC/0.11 A |
| 48 VDC/1.0 A                                       | 48 VDC/1.25 A |                |
| 60 VDC/0.8 A                                       | 60 VDC/1.0 A  |                |

|  |   |
|--|---|
| <b>Contacts:</b>                             | 2 NC  |
| <b>Operating voltage:</b>                    | 5 - 30 V DC (LED)   |
| <b>Operation current:</b>                    | 9,7 - 12,4 mA   |
| <b>Rated Operational Voltage Ue:</b>         | 250 VAC/DC according to EN IEC 60947-1                                  |
| <b>Rated impulse withstand voltage Uimp:</b> | 4 kV, according to EN IEC 60947-1                                       |
| <b>Rated insulation voltage Ui:</b>          | 250 V according to EN / IEC 60947-1                                     |
| <b>Rated short-circuit current caused:</b>   | 1 000 A, type of short-circuit device 6 A gG (EN 60947-5-1)             |
| <b>Recommended minimum operational data:</b> | Silver contacts (gold plated)<br>Voltage 1 VAC/DC<br>Current 1 mA       |
| <b>Switching rating:</b>                     | 250 V AC @ 1,5 A  |
| <b>Electrical lifetime:</b>                  | 50 000 cycles of operation  |
| <b>Electric strength:</b>                    | 500 VAC, 50 Hz, 1 minute according to DIN IEC 60512-2                   |
| <b>Overvoltage category:</b>                 | III, according to EN / IEC 61058-1                                      |
| <b>Pollution degree:</b>                     | 3, according to EN IEC 60947-1  |
| <b>Protection class:</b>                     | II, according to EN / IEC 60947-5                                       |
| <b>Standards:</b>                            | According to EN 60947-5-1, EN 60947-5-5, DIN EN ISO 13850, EN IEC 60204 |
| <b>Thermal current Ith:</b>                  | 5 A   |

## MECHANICAL CHARACTERISTICS

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Terminal:</b>            | Plug-in terminal, 2.8 x 0.5 mm |
| <b>Contact material:</b>    | Gold                           |
| <b>Switching action:</b>    | Maintained                     |
| <b>Switching system:</b>    | Slow-make switching element    |
| <b>Release type:</b>        | Twist to unlock                |
| <b>Mechanical lifetime:</b> | 250 000 cycles of operation    |

|                           |                   |
|---------------------------|-------------------|
| <b>Operating force:</b>   | 20 N ±4 N         |
| <b>Operating Travel:</b>  | ca. 4 mm          |
| <b>Tightening torque:</b> | Fixing nut 0.8 Nm |
| <b>Weight:</b>            | 0.028 kg          |

## AMBIENT CONDITION

|                               |   |
|-------------------------------|---|
| <b>IP front protection:</b>   | IP65, IP66, IP67, according to DIN EN 60529   |
| <b>IK Protection:</b>         | IK07 as per IEC 62262   |
| <b>Operating temperature:</b> | – 25 °C ... + 70 °C   |
| <b>Storage temperature:</b>   | – 25 °C ... + 85 °C   |
| <b>Shock resistance:</b>      | Max. 150 m / s <sup>2</sup> , pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27)   |
| <b>Vibration resistance:</b>  | Max. 50 m / s <sup>2</sup> from 10 Hz ... 500 Hz, 10 cycles, 3-axis (sinusoidal EN IEC 60068-2-6)   |
| <b>Climate resistance:</b>    | Damp heat, cyclic: 96 hours, + 25 °C/97 %, + 55 °C/93 % relative humidity, as per EN IEC 60068-2-30<br>Damp heat, steady: 56 days, + 40 °C/93 % relative humidity, according to EN IEC 60068-2-78<br>Saline mist: 96 hours, + 35 °C in chemical solution NaCl, as per EN IEC 60068-2-11<br>Dry heat: 96 hours, + 70 °C, as per EN IEC 60068-2-2<br>Low temperature: 96 hours, – 40 °C (as per EN IEC 60068-2-1)<br>Simulated solar radiation test SA2 and weathering test SB1 as per EN IEC 60068-2-5 |

## CERTIFICATE

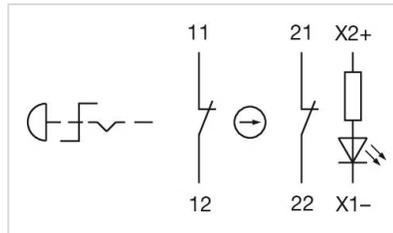
|                      |  |
|----------------------|--|
| <b>Approbations:</b> | CB (IEC 60947-5-1. IEC60947-5-5), CCC, EN ISO 13850, UL NISD |
| <b>Conformities:</b> | CE, UKCA, 2006 / 42 / EC (MD), 2011 / 65 / EC (RoHS)         |
| <b>REACH:</b>        | REACH compliant  |
| <b>RoHS:</b>         | RoHS compliant   |

## OTHER

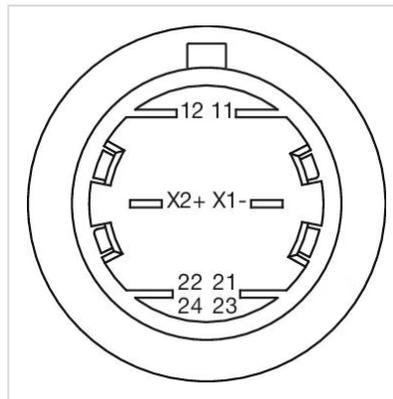
|                               |  |
|-------------------------------|--|
| <b>Short Description:</b>     | Emergency stop switch, Ø 22.3 mm, Ø 32 mm, Mushroom-head, Illuminated, Red, Plastic, according to UL 94 V0, opaque, Round, 2 NC, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, IP66, IP67, according to DIN EN 60529, Twist to unlock, Red |
| <b>Material:</b>              | Plastic, according to UL 94 V0   |
| <b>Housing colour:</b>        | Yellow   |
| <b>Housing material:</b>      | Plastic, according to UL 94 V0   |
| <b>Description component:</b> |  |

The double-break switching system can be supplied for the following switching functions: 1 Normally closed, 2 Normally closed, 1 Normally closed + 1 Normally open. The Normally closed contacts have forced opening according to EN 60947-5-5

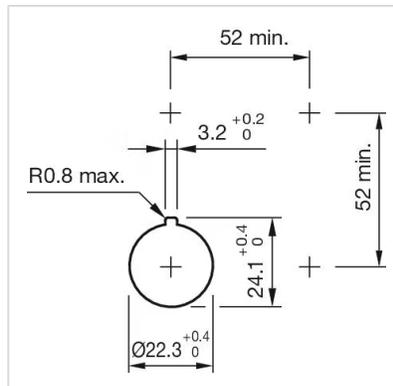
**Wiring diagrams:**



**Component layouts:**



**Mounting cut-outs:**



**Dimension drawings:**

